

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
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TIMOTHY P. MURRAY
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JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

08/05/2011

Jaclyn Sexton
Assistant District Attorney, Norfolk County

Dear ADA Sexton,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Stacey Desjardins.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Stacey Desjardins was the custodial chemist and performed the preliminary testing and net weight for this sample. Annie Dookhan was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Oversee the Quality Control/Quality Assurance program for the Drug Lab.

*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Stacey Lyn Desjardins

stacey.feiden@state.ma.us

EDUCATION

Master of Science—Forensic Science
University of New Haven; West Haven, Connecticut
May 2006

- Concentration: Criminalistics
- Certificate: Advanced Investigation

Bachelor of Arts—Chemistry
Monmouth College; Monmouth, Illinois
May 2004

- Graduated Cum Laude

EXPERIENCE

Chemist I
Massachusetts Department of Public Health; Jamaica Plain, Massachusetts
March 2009-present

- Analyze unknown substances submitted by Massachusetts Law Enforcement Agencies
- Operate, maintain, and interpret data from analytical equipment (Gas Chromatograph, analytical balance, microscope, Ultraviolet Spectrometer, Infrared Spectrometer)
- Provide expert testimony to local, state, and federal courts in Massachusetts

Teaching/Graduate Assistant
Monmouth College Chemistry Department
University of New Haven Forensic Science Department
January 2001-May 2006

- Supervised labs and answered student questions
- Performed demonstrations using forensic techniques and chemicals

Additional work experience and references available upon request

TRAINING

2010: DEA Forensic Chemist Seminar—Washington DC
2009: Multijurisdictional Counterdrug Task Force Training on Current Drug Trends
2009: Six week training with Senior Staff at the Massachusetts Department of Public Health Drug Analysis Laboratory—appointed Assistant Analyst
2005: Internship with the New Hampshire State Crime Lab

COURSEWORK

Biomedical Methods of Forensic Science, Criminal Procedure, Forensic Microscopy, Advanced Criminalistics I and II, Forensic Toxicology, Advanced Investigation I and II, Physical Analysis in Forensic Science, Organic Chemistry I and II, General Chemistry, Analytical Chemistry I and II, Physical Chemistry I, II, and III, Biochemistry, Advanced Inorganic Chemistry

No. [REDACTED]

Date Analyzed: 10-19-10

City: Quincy Police Dept.

Officer: Detective WILLIAM WARD

Def: [REDACTED]

Amount:

No. Cont: 1 Cont: plastic cap

Subst: RES

Date Rec'd: 08/02/2010

No. Analyzed:

Gross Wt.: 4.03g

Net Weight:

Tests: 7 SLD

• 2 ASD

Prelim: COCAINE

Findings: cocaine

DRUG POWDER ANALYSIS FORM

SAMPLE # XXXXXXXXXX AGENCY Quincy ANALYST SLD

No. of samples tested: _____ Evidence Wt. ✓ _____

PHYSICAL DESCRIPTION: - signed & sealed
- white residue in bc w/
cotton ball

Gross Wt () : _____
Gross Wt () : _____
Pkg. Wt: _____
Net Wt: _____

- rinsed w/ CHCl_3 ; soaked cotton

PRELIMINARY TESTS

Spot Tests

Cobalt Thiocyanate () ⊕
Marquis ⊖
Froehde's ⊖
Mecke's ⊖

Microcrystalline Tests

Gold Chloride ⊕
TLTA () ⊕

OTHER TESTS

GC⊕

PRELIMINARY TEST RESULTS

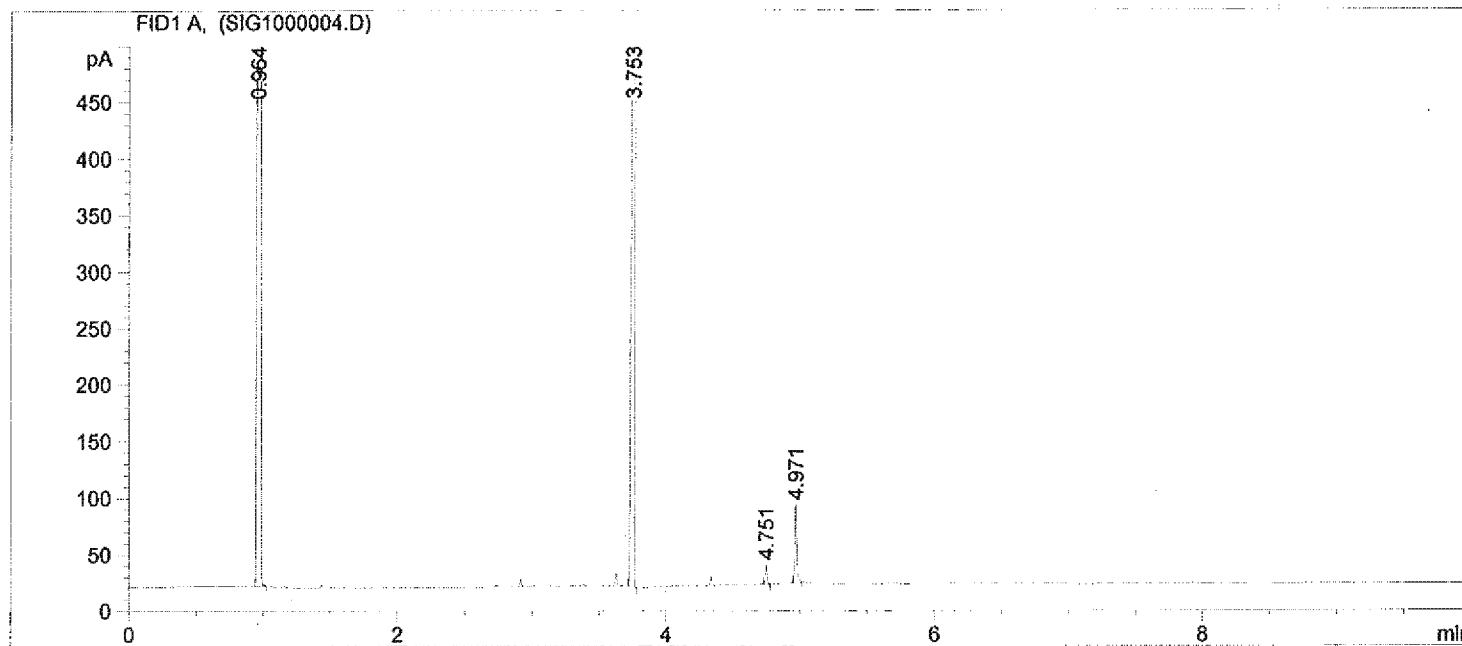
RESULTS cocaine
DATE 10-14-10

GC/MS CONFIRMATORY TEST

RESULTS cocaine
MS OPERATOR ASD
DATE 10-19-10

Sample Name: [REDACTED]

```
=====
Acq. Operator   : ASD                               Seq. Line : 4
Acq. Instrument : DrugLab GC #2                 Location  : Vial 4
Injection Date  : 10/15/2010 10:16:08 AM           Inj       : 1
                                                Inj Volume : 1  $\mu$ l
Sequence File   : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method          : C:\CHEM32\1\METHODS\DRUGS.M
Last changed    : 7/28/2010 1:58:35 PM
=====
```



```
=====
Area Percent Report
=====
```

```
Sorted By          : Retention Time
Multiplier:       : 1.0000
Dilution:         : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

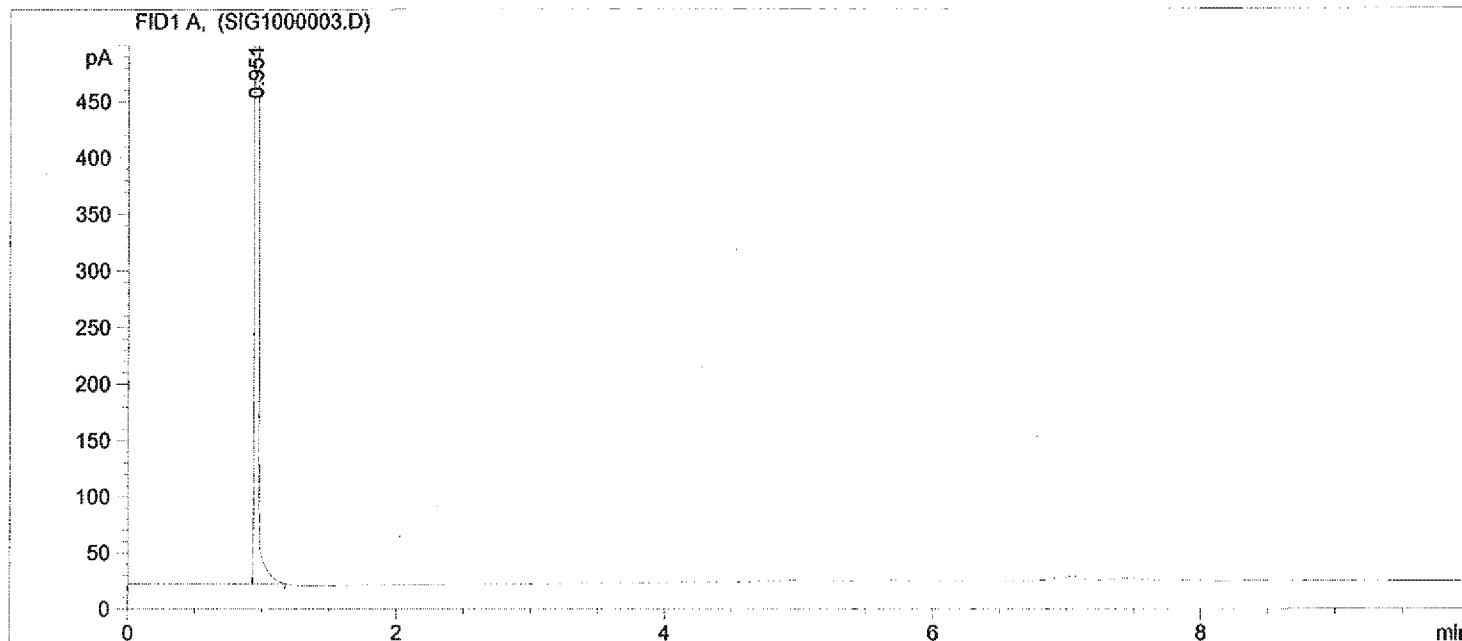
Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	0.964	1	BB S	4.07723e4	4.78975e4	95.80750
2	3.753	1	BB	1698.53503	1495.81726	3.99125
3	4.751	1	BB	14.67189	16.56279	0.03448
4	4.971	1	BB	70.97446	67.98839	0.16678

Totals : 4.25565e4 4.94779e4

```
=====
*** End of Report ***
=====
```

Sample Name: BLANK

```
=====
Acq. Operator   : ASD                               Seq. Line : 3
Acq. Instrument : DrugLab GC #2                 Location  : Vial 3
Injection Date  : 10/15/2010 10:02:40 AM           Inj       : 1
                                                Inj Volume : 1  $\mu$ l
Sequence File   : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method          : C:\CHEM32\1\METHODS\DRUGS.M
Last changed    : 7/28/2010 1:58:35 PM
=====
```



```
=====
Area Percent Report
=====
```

```
Sorted By          : Retention Time
Multiplier:       : 1.0000
Dilution:         : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

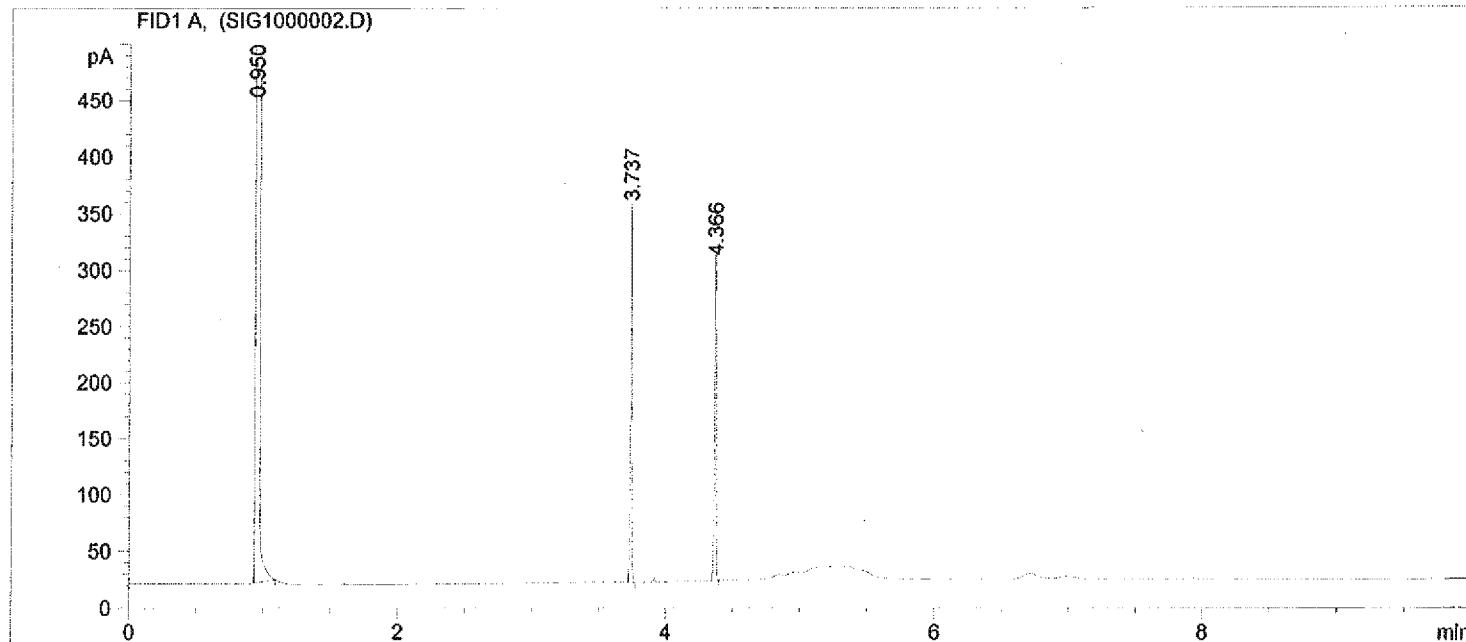
Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	0.951	1	BB S	6.30203e4	6.28997e4	1.000e2

Totals : 6.30203e4 6.28997e4

```
=====
*** End of Report ***
=====
```

Sample Name: COKE/CODEINE STD

```
=====
Acq. Operator   : ASD                               Seq. Line : 2
Acq. Instrument : DrugLab GC #2                 Location  : Vial 2
Injection Date  : 10/15/2010 9:49:16 AM           Inj       : 1
                                                Inj Volume : 1  $\mu$ l
Sequence File   : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method          : C:\CHEM32\1\METHODS\DRUGS.M
Last changed    : 7/28/2010 1:58:35 PM
=====
```



```
=====
Area Percent Report
=====
```

```
Sorted By          : Retention Time
Multiplier:       : 1.0000
Dilution:         : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

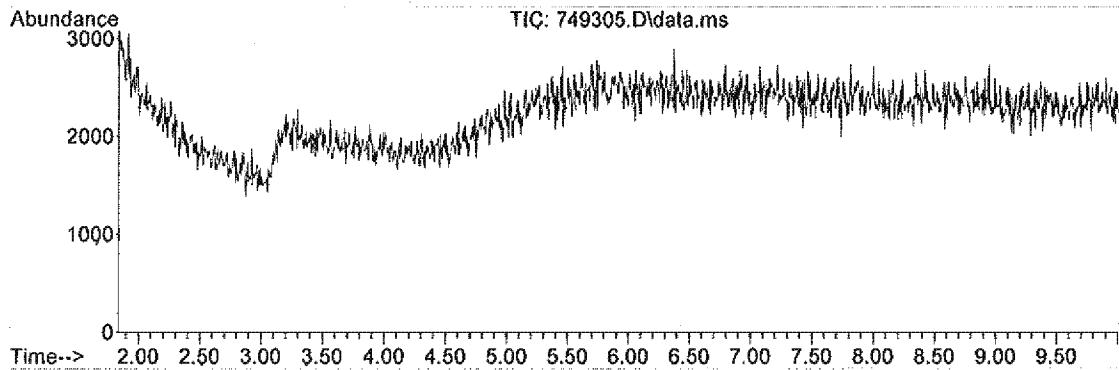
Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	0.950	1	BB S	6.08212e4	6.20131e4	99.13691
2	3.737	1	BB	277.76193	333.44870	0.45274
3	4.366	1	BB	251.74829	283.35236	0.41034

Totals : 6.13507e4 6.26299e4

```
=====
*** End of Report ***
=====
```

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\10_18_10\749305.D
Operator : ASD
Date Acquired : 18 Oct 2010 15:56
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

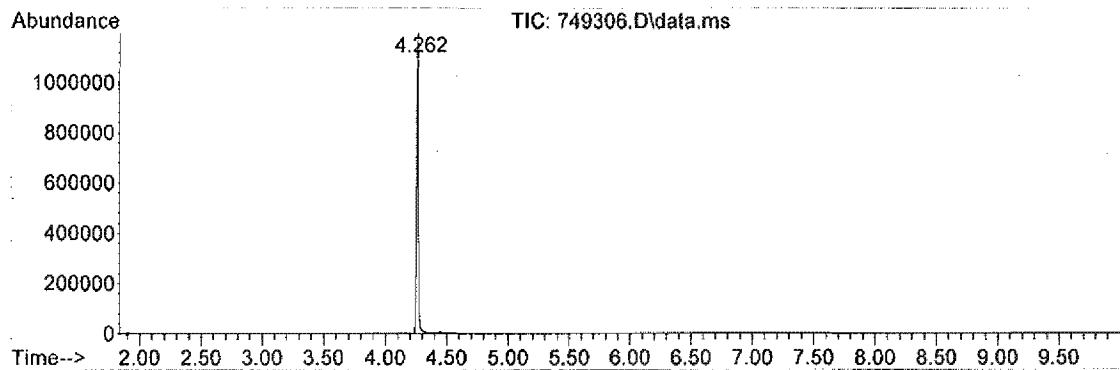


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\10_18_10\749306.D
Operator : ASD
Date Acquired : 18 Oct 2010 16:09
Sample Name : COCAINE STD
Submitted by :
Vial Number : 6
AcquisitionMeth: DRUGS.M
Integrator : RTE



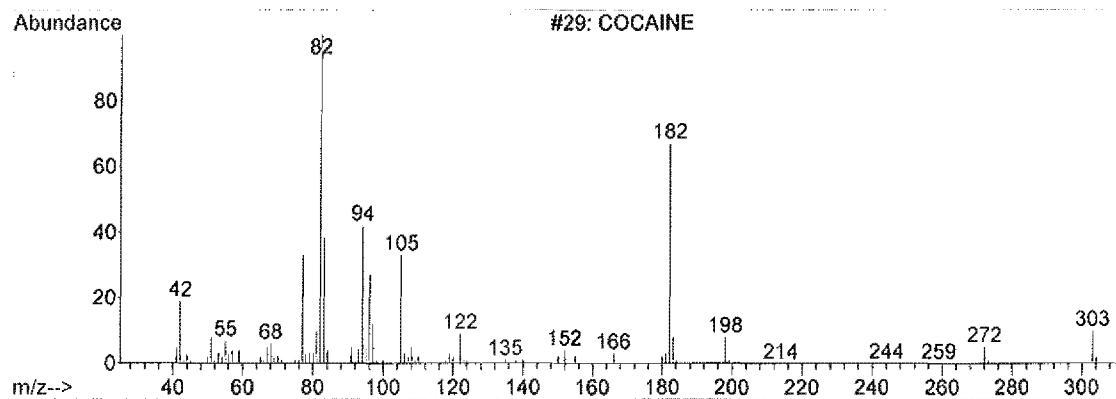
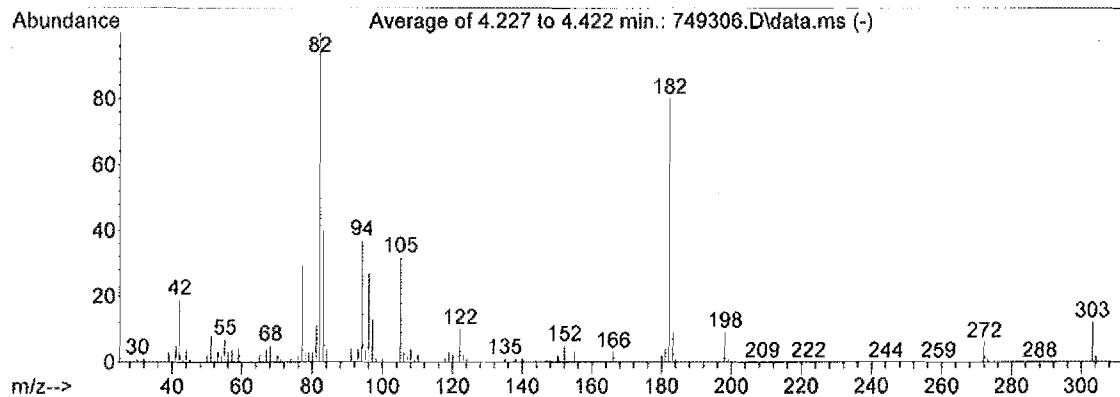
Ret. Time	Area	Area %	Ratio %
4.262	1223140	100.00	100.00

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\10_18_10\749306.D
Operator : ASD
Date Acquired : 18 Oct 2010 16:09
Sample Name : COCAINE STD
Submitted by :
Vial Number : 6
AcquisitionMeth: DRUGS.M
Integrator : RTE

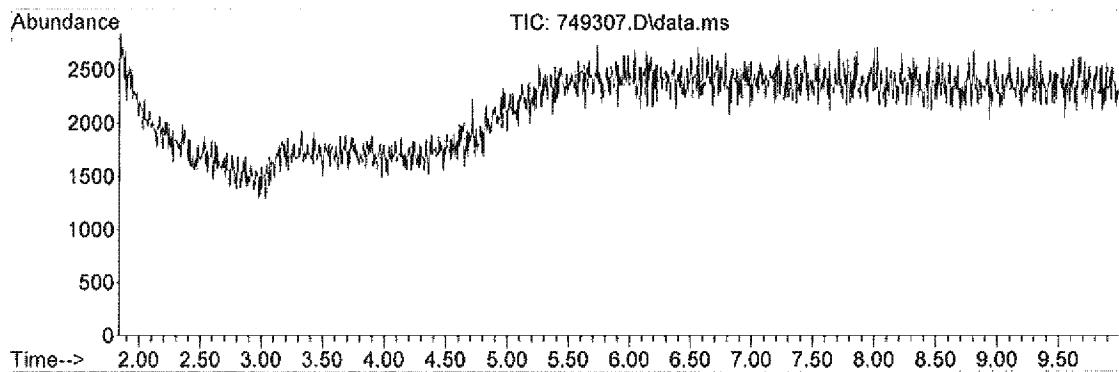
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.26	C:\Database\SLI.L COCAINE	000050-36-2	99



Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\10_18_10\749307.D
Operator : ASD
Date Acquired : 18 Oct 2010 16:22
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

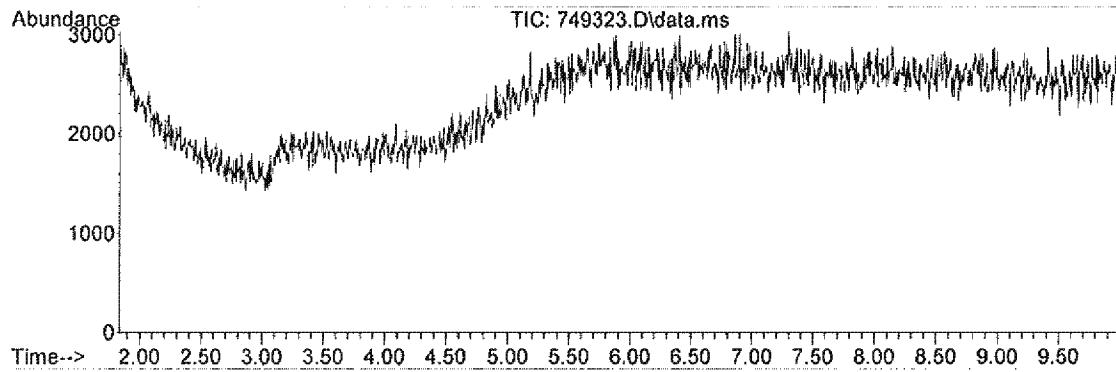


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\10_18_10\749323.D
Operator : ASD
Date Acquired : 18 Oct 2010 19:50
Sample Name : BLANK
Submitted by : SLD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

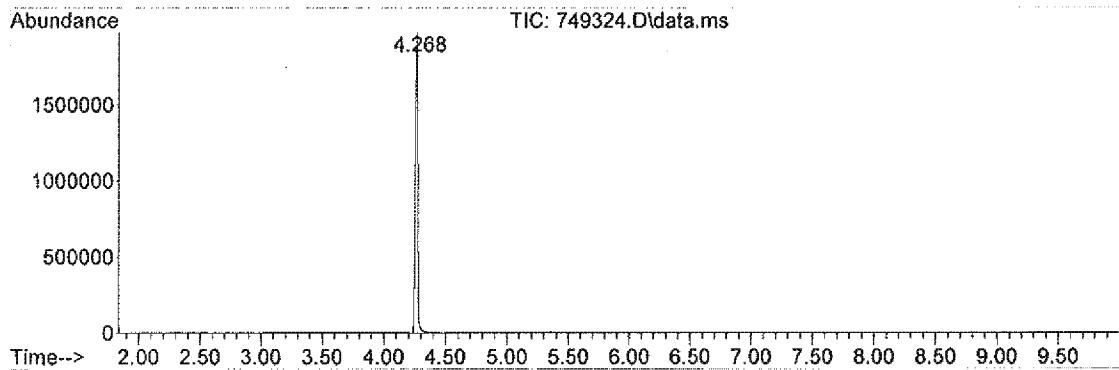


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\10_18_10\749324.D
Operator : ASD
Date Acquired : 18 Oct 2010 20:03
Sample Name : XXXXXXXXXX
Submitted by : SLD
Vial Number : 24
AcquisitionMeth: DRUGS.M
Integrator : RTE



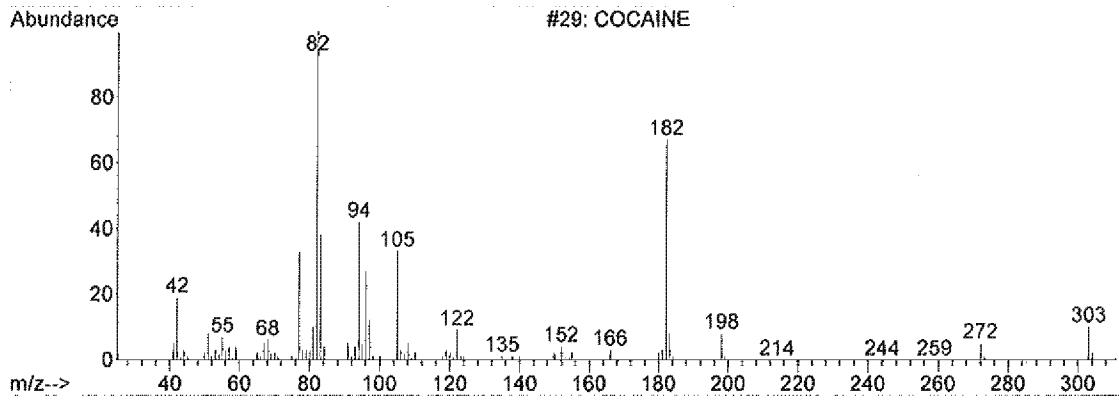
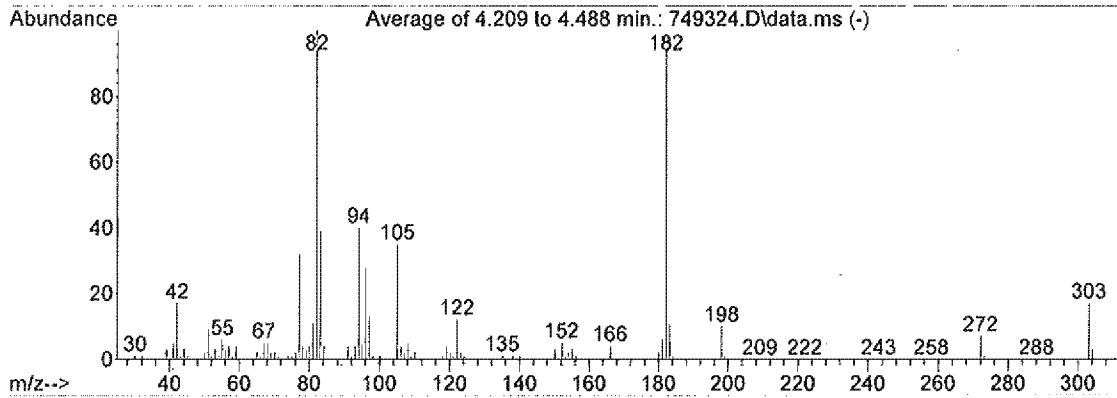
Ret. Time	Area	Area %	Ratio %
4.268	2704256	100.00	100.00

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\10_18_10\749324.D
Operator : ASD
Date Acquired : 18 Oct 2010 20:03
Sample Name : XXXXXXXXXX
Submitted by : SLD
Vial Number : 24
AcquisitionMeth: DRUGS.M
Integrator : RTE

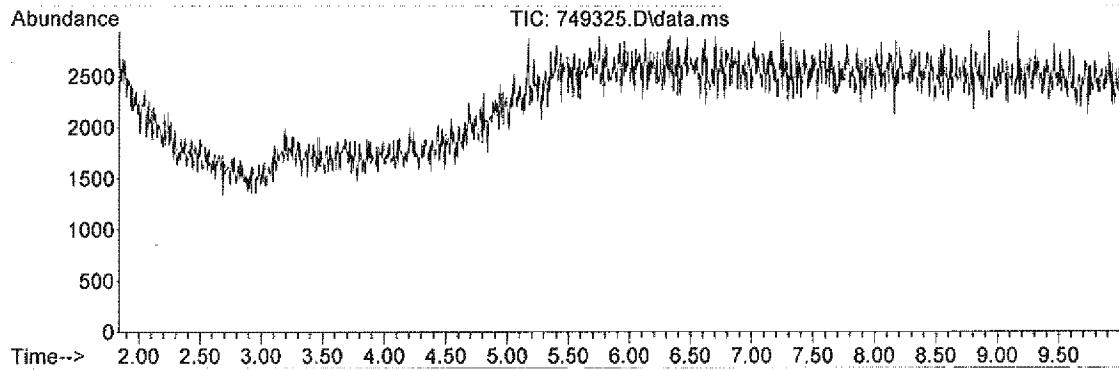
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.27	C:\Database\SLI.L COCAINE	000050-36-2	99



Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\10_18_10\749325.D
Operator : ASD
Date Acquired : 18 Oct 2010 20:16
Sample Name : BLANK
Submitted by : SLD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

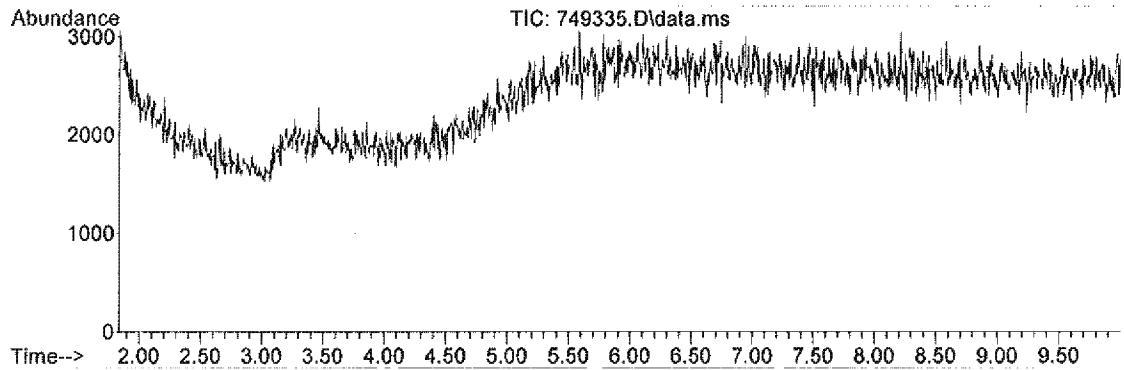


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\10_18_10\749335.D
Operator : ASD
Date Acquired : 18 Oct 2010 22:26
Sample Name : BLANK
Submitted by : SLD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE

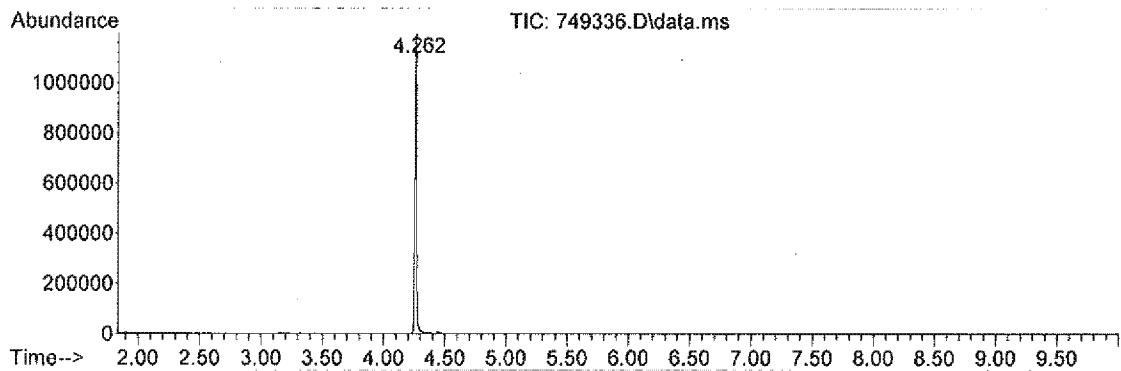


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\10_18_10\749336.D
Operator : ASD
Date Acquired : 18 Oct 2010 22:39
Sample Name : COCAINE STD
Submitted by : SLD
Vial Number : 6
AcquisitionMeth: DRUGS.M
Integrator : RTE



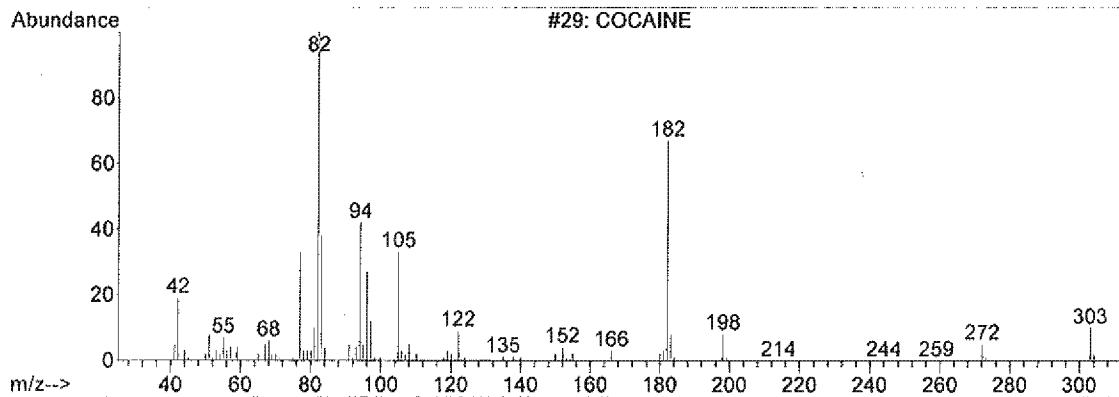
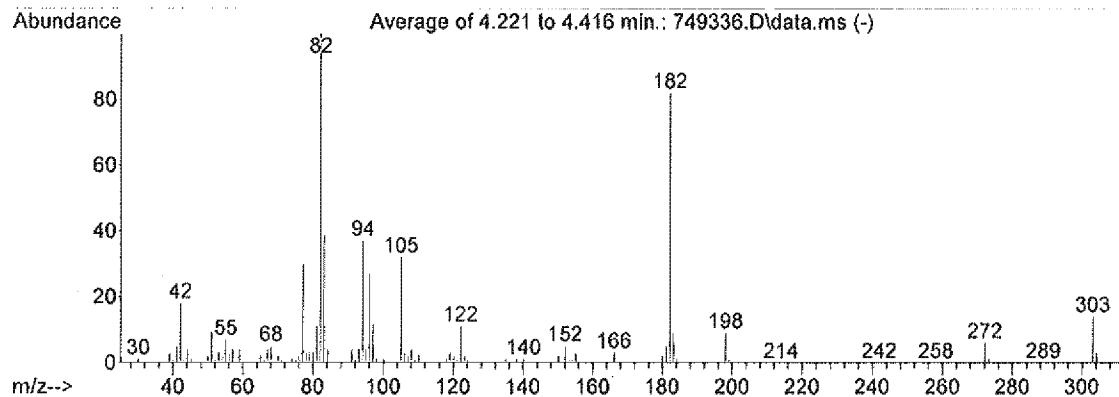
Ret. Time	Area	Area %	Ratio %
4.262	1241961	100.00	100.00

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\10_18_10\749336.D
Operator : ASD
Date Acquired : 18 Oct 2010 22:39
Sample Name : COCAINE STD
Submitted by : SLD
Vial Number : 6
AcquisitionMeth: DRUGS.M
Integrator : RTE

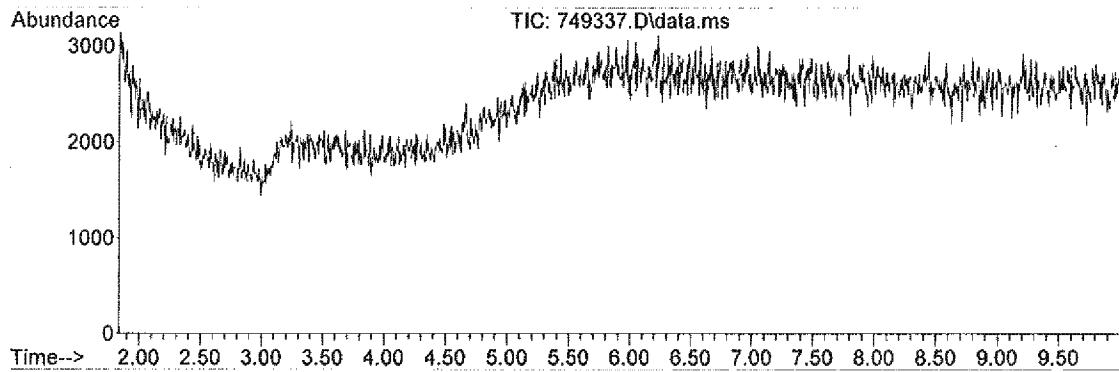
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.26	C:\Database\SLI.L COCAINE	000050-36-2	99



Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\10_18_10\749337.D
Operator : ASD
Date Acquired : 18 Oct 2010 22:51
Sample Name : BLANK
Submitted by : SLD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS